

Proliferin-1 (m): 293T Lysate: sc-122787

BACKGROUND

Various hormones are secreted from the anterior pituitary during development and growth, including Prolactin, Lutropin (LH), Proliferin (Mrp1 or Plf1), thyroid-stimulating hormone (TSH) and follicle-stimulating hormone (FSH). Proliferin, which also is designated mitogen-regulated protein 1, is an important secreted protein that plays a role in embryonic development. During fetal development at mid-gestation, Proliferin provides a growth signal to target cells in fetal and maternal tissues. It is a secreted protein that belongs to the somatotropin/Prolactin growth hormone family of proteins.

REFERENCES

1. Linzer, D.I. and Nathans D. 1984. Nucleotide sequence of a growth-related mRNA encoding a member of the Prolactin-growth hormone family. *Proc. Natl. Acad. Sci. USA* 81: 4255-4259.
2. Linzer, D.I. and Mordacq, J.C. 1987. Transcriptional regulation of Proliferin gene expression in response to serum in transfected mouse cells. *EMBO J.* 6: 2281-2288.
3. Hardy, C.M., Clydesdale, G. and Mobbs, K.J. 2004. Development of mouse-specific contraceptive vaccines: infertility in mice immunized with peptide and polypeptide antigens. *Reproduction* 128: 395-407.
4. Dostert, A. and Heinzel, T. 2004. Negative glucocorticoid receptor response elements and their role in glucocorticoid action. *Curr. Pharm. Des.* 10: 2807-2816.
5. Xie, J., Baumann, M.J. and McCabe, L.R. 2004. Osteoblasts respond to hydroxyapatite surfaces with immediate changes in gene expression. *J. Biomed. Mater. Res. A* 71: 108-117.
6. Xie, J., Baumann, M.J. and McCabe, L.R. 2005. Adsorption of serum fetuin to hydroxylapatite does not contribute to osteoblast phenotype modifications. *J. Biomed. Mater. Res. A* 73: 39-47.
7. Parfett, C.L. 2005. Mitogen-regulated protein/Proliferin mRNA induction following single applications of tumor promoters to murine skin. *Mol. Carcinog.* 43: 117-129.

CHROMOSOMAL LOCATION

Genetic locus: Prl2c2 (mouse) mapping to 13 A1.

PRODUCT

Proliferin-1 (m): 293T Lysate represents a lysate of mouse Proliferin transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

Proliferin-1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Proliferin-1 antibodies. Recommended use: 10-20 µl per lane.

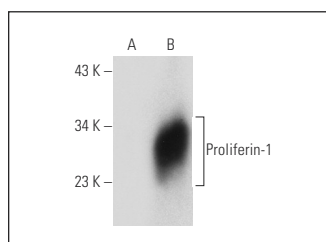
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Proliferin (E-10): sc-271891 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Proliferin expression in Proliferin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Proliferin (E-10): sc-271891. Western blot analysis of Proliferin-1 expression in non-transfected: sc-117752 (A) and mouse Proliferin-1 transfected: sc-122787 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.